



MBTS



GOVERNMENT POLYTECHNIC

Empowering Education. Enriching Lives. Building Futures.

NEWSLETTER

TECH CHRONICLE

2025-26



QUALITY EDUCATION

Industry-aligned curriculum delivered by experienced faculty.



MODERN INFRASTRUCTURE

Well-equipped labs and workshops for hands-on learning.



SKILLED WORKFORCE

Training students with practical skills for successful careers.



NBA ACCREDITED

Accredited by NBA for maintaining high standards in technical education.



PLACEMENTS & CAREER SUPPORT

Dedicated placement cell connecting students with top recruiters.



HOLISTIC DEVELOPMENT

Encouraging innovation, leadership, and overall personality growth.



NALLAPADU, GUNTUR - 522005



T. SEKHAR GARU
PRINCIPAL SIR

Feel Good Message

“

Believe in yourself, work with dedication, and never stop learning. Your hard work today builds a stronger and brighter tomorrow. Together, let's achieve excellence and make our institution proud.

”

Signature



Y. RAVINDRA BABU GARU
HOD SIR

Feel Good Message

“

Stay positive, stay focused, and keep pushing your limits. Discipline, perseverance, and a passion for knowledge will lead you to success. I believe in your potential.

”

Signature

Together, We Learn. Together, We Grow. Together, We Achieve.



LEARN
with curiosity



GROW
with determination



ACHIEVE
with excellence

VISION

Develop Computer Engineers to be technologically adept, innovative, self-motivated and responsible citizen with human values , high quality skills and to contribute significantly towards ever changing Computer Technologies.

MISION

M1

To provide opportunity to Diploma students who are capable of playing pivotal role in wide aspects of modern Computer Engineering.

M2

To make the students understand basic concepts underlie in Computer Engineering and able to apply them creatively in different fields of Engineering

M3

To train the student sensitive to the Environment, safety and economic context.

M4

To produce technically skilled students through intensive training in Computer Engineering tools and application and to prepare the students for professional career and further research.

PROGRAMME EDUCATIONAL OBJECTIVES(PEOs)

Computer Engineering programme is ever changing to transform to transform students Ito competent professionals with qualities, ethics and human values . On completion of the integrated programme, the students should have acquired the following characteristics

PEO1

To produce best Diploma in Computer Engineering technicians by correlating growing need of the industries in modern topics with the academic input and giving the technical knowledge for further learning.

PEO2

To prepare the students as productive Computer Engineers, possessing supportive and leadership skills in multidisciplinary domains, expertise in Practical orientation, Communication Skills and latest developments.

PEO3

To give the depth of related skills and expertise in a single field, and the ability to collaborate with other disciplines and work at the Supervisory cadre.

PEO4

To promote the students in professionalism, by successful completion of the Diploma in Computer Engineering by emphasizing Field Practices in industryoriented activities.

PEO5

To sensitize the students on social and economic commitment and to inculcate a nature to guard the values of community and protect environment.

PROGRAM OUTCOMES (POs)

Students completing Diploma in Computer Engineering are anticipated to have the following abilities

PO1

Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2

Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.

PO3

Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4

Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5

Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6

Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7

Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

EDITORIAL BOARD

Capturing Memories • Celebrating Achievements • Inspiring Excellence



Y.RAVINDRA BABU

Head of the Department

Department of Computer Science Engineering



N. BINDU

Faculty of Computer Science Engineering

STUDENT EDITORS



CHIRUGURI RAVINDRA

Student Editor



KAKUMANU.NIKHIL

Student Editor



ORSU.PRABHU KUMAR

Student Editor



GOMPA.SOHINTH

Student Editor

“ The success of this newsletter is the result of the dedication, teamwork, and creativity of our editorial team. ”

CONTACT US

Department of Computer Science Engineering
MBTS Government Polytechnic
Nallapadu, Guntur - 522005



Email: cse@mbtspolytechnic.ac.in



Phone: 0863-2596132

ACADEMIC EXCELLENCE



ACHIEVING TODAY, LEADING TOMORROW



ECET STATE RANK

NAME	: V. Akshara
BRANCH	: CME
ECET STATE RANK	: 151
BRANCH RANK	: 136
MARKS	: 138

Pride of Our Institution



ACADEMIC TOPPERS



2nd YEAR TOPPER



NAME : **CH. Thanmai**
BRANCH : **CME**
MARKS : **874 / 900**

97.1 %

3rd YEAR TOPPER



NAME : **V. Akshara**
BRANCH : **CME**
MARKS : **877 / 900**

97.4 %

3rd YEAR TOPPER



NAME : **SK. Yasin**
BRANCH : **CME**
MARKS : **877 / 900**

97.4 %

OUR MESSAGE

“

The remarkable achievement of our ECET State Ranker and Academic Toppers is a result of their relentless hard work, dedication, and perseverance. They have set a benchmark for excellence and continue to inspire their peers to dream, believe and achieve.

”

ACHIEVEMENT HIGHLIGHTS



ECET State Rank Achievement



Consistent Academic Excellence



Department Wise Toppers



Inspiring Future Engineers

★ *Success is not just about being the best,* ★
★ *but inspiring others to achieve greatness.* ★





SPORTS ACHIEVEMENTS



UKF COLLEGE
OF ENGINEERING & TECHNOLOGY
Parippally, Kollam
(An Autonomous Institution)
learning to succeed
A Project of Universal Knowledge Foundation



ALL INDIA SOUTH ZONE POLYTECHNIC SPORTS & GAMES MEET (AISZPSGM)

13th & 14th March 2026

UKF College of Engineering & Technology (Autonomous)
Parippally, Kollam

Hosted by



UKF COLLEGE
OF ENGINEERING & TECHNOLOGY
Parippally, Kollam
(An Autonomous Institution)
learning to succeed

A Project of Universal Knowledge Foundation
Approved by UGC & AICTE | Affiliated to APJ Abdul Kalam Technological University &
State Board of Technical Education (SBTE)



STATE LEVEL CHESS CHAMPION

Our student

TANMAYA REDDY

from

**COMPUTER SCIENCE ENGINEERING
MBTS GOVT POLYTECHNIC**

Our student has secured the State Level Chess Championship with outstanding strategy, sharp intellect, and unwavering focus.

Competing against the best minds from across the state, this remarkable achievement is a testament to dedication, discipline, and determination.

Congratulations on this Proud Victory!



EVENT

All India South Zone
Polytechnic Sports & Games Meet
(AISZPSGM)



VENUE

UKF College of Engineering &
Technology (Autonomous),
Parippally, Kollam



DATE

13th & 14th March 2026



PARTICIPATING TEAMS

Top Polytechnic Colleges from
All South Zone States



ACHIEVEMENT

State Level Chess Champion



Every Move. Every Decision. Every Victory.
A Champion Made on the Chessboard!



FACULTY DEVELOPMENT PROGRAM (FDP)

We are delighted to congratulate

SRI NAGESWARA RAO

Lecturer in Computer Science Engineering

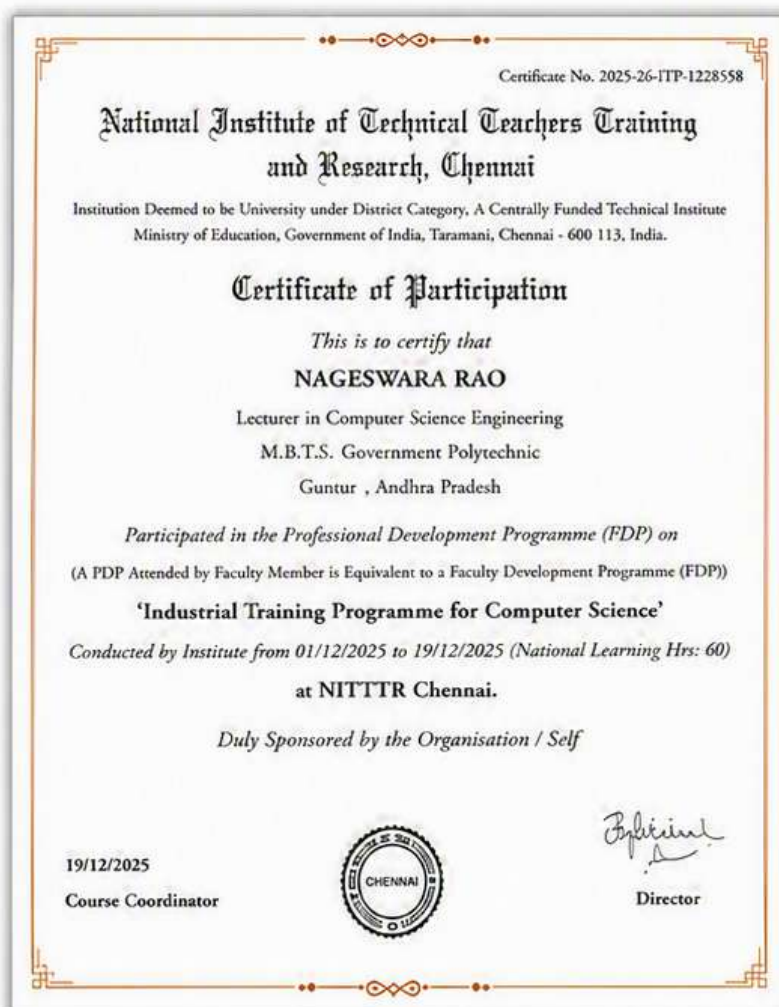
M.B.T.S. Government Polytechnic, Guntur, Andhra Pradesh

for successfully participating in the Professional Development Programme (FDP) on **'Industrial Training Programme for Computer Science'**

organized by NITTTR Chennai, conducted from **01/12/2025 to 19/12/2025** (National Learning Hrs: 60), and duly sponsored by the Organisation / Self.

This achievement reflects his continuous commitment to professional growth, academic excellence, and the pursuit of knowledge.

We congratulate and appreciate his dedication towards enhancing his skills for the benefit of our students and institution.



His active participation in this programme is a testament to his passion for learning and his role in shaping a brighter future through quality education.

Congratulations, Sir!



★ FACULTY DEVELOPMENT PROGRAM (FDP) ★

We are delighted to congratulate

SMT. BYSANI SAROJA

Lecturer in Computer Science Engineering

M.B.T.S. Government Polytechnic, Guntur, Andhra Pradesh



for successfully completing a
Three-Week Industrial Training in
**ARTIFICIAL INTELLIGENCE and
MACHINE LEARNING**
at
**SITHAFAL TECHNOLOGIES
PRIVATE LIMITED, Tirupati,**
conducted from



**13th October 2025
to
1st November 2025**

Her active participation in hands-on sessions, workshops, industry-oriented projects and keen interest in learning from industry experts reflect her dedication, enthusiasm and commitment towards professional growth and excellence.

We appreciate her passion for learning and wish her continued success in all her future endeavors.



CERTIFICATE OF COMPLETION

This is to certify that **Smt. BYSANI SAROJA**, Lecturer in Computer Engineering at MBTS Government Polytechnic, Guntur, has successfully completed a Three-Week Industrial Training in **ARTIFICIAL INTELLIGENCE and MACHINE LEARNING** at **SITHAFAL TECHNOLOGIES PRIVATE LIMITED, Tirupati**, conducted from 13th October 2025 to 1st November 2025. During the training period, she actively participated in hands-on sessions, workshops, industry-oriented projects, demonstrated commendable enthusiasm, dedication and a keen interest in learning from industry experts.

Sanil
Sithafal Technologies Pvt. Ltd.



“ Continuous learning is the key to innovation
and professional excellence. ”

Heartiest Congratulations!

FACULTY DEVELOPMENT PROGRAM (FDP)

We are delighted to congratulate

SMT. M ARUNA KUMARI

Lecturer in Computer Science Engineering

DA Government Polytechnic, Ongole, Andhra Pradesh



for successfully completing a
Three-Week Industrial Training in
**ARTIFICIAL INTELLIGENCE and
MACHINE LEARNING**

at

**SITHAFAL TECHNOLOGIES
PRIVATE LIMITED, Tirupati,**
conducted from



**13th October 2025
to
1st November 2025**

Her active participation in hands-on sessions, workshops, industry-oriented projects, and demonstrated commendable enthusiasm, dedication and a keen interest in learning from industry experts reflect her commitment towards professional growth and excellence.

We appreciate her dedication to learning and wish her continued success in all her future endeavors.

“ *Her enthusiasm for learning and commitment to excellence
inspire continuous growth and a bright future ahead.* ”

Heartiest Congratulations!



CERTIFICATE OF COMPLETION

This is to certify that Smt. M ARUNA KUMARI, Lecturer in Computer Engineering at DA Government Polytechnic, Ongole, has successfully completed a Three-Week Industrial Training in **ARTIFICIAL INTELLIGENCE and MACHINE LEARNING** at **SITHAFAL TECHNOLOGIES PRIVATE LIMITED**, Tirupati, conducted from 13th October 2025 to 1st November 2025. During the training period, she actively participated in hands-on sessions, workshops, industry-oriented projects, demonstrated commendable enthusiasm, dedication and a keen interest in learning from industry experts.

Teerthi
Sithafal Technologies





FACULTY DEVELOPMENT PROGRAM (FDP)

We are delighted to congratulate

SMT. N BINDU

Lecturer in Computer Science Engineering

M.B.T.S. Government Polytechnic, Guntur, Andhra Pradesh

for successfully participating in the
Three-Weeks Training Programme on
**'INDUSTRIAL TRAINING
PROGRAMME FOR
COMPUTER SCIENCE'**

conducted by

NITTTR CHENNAI



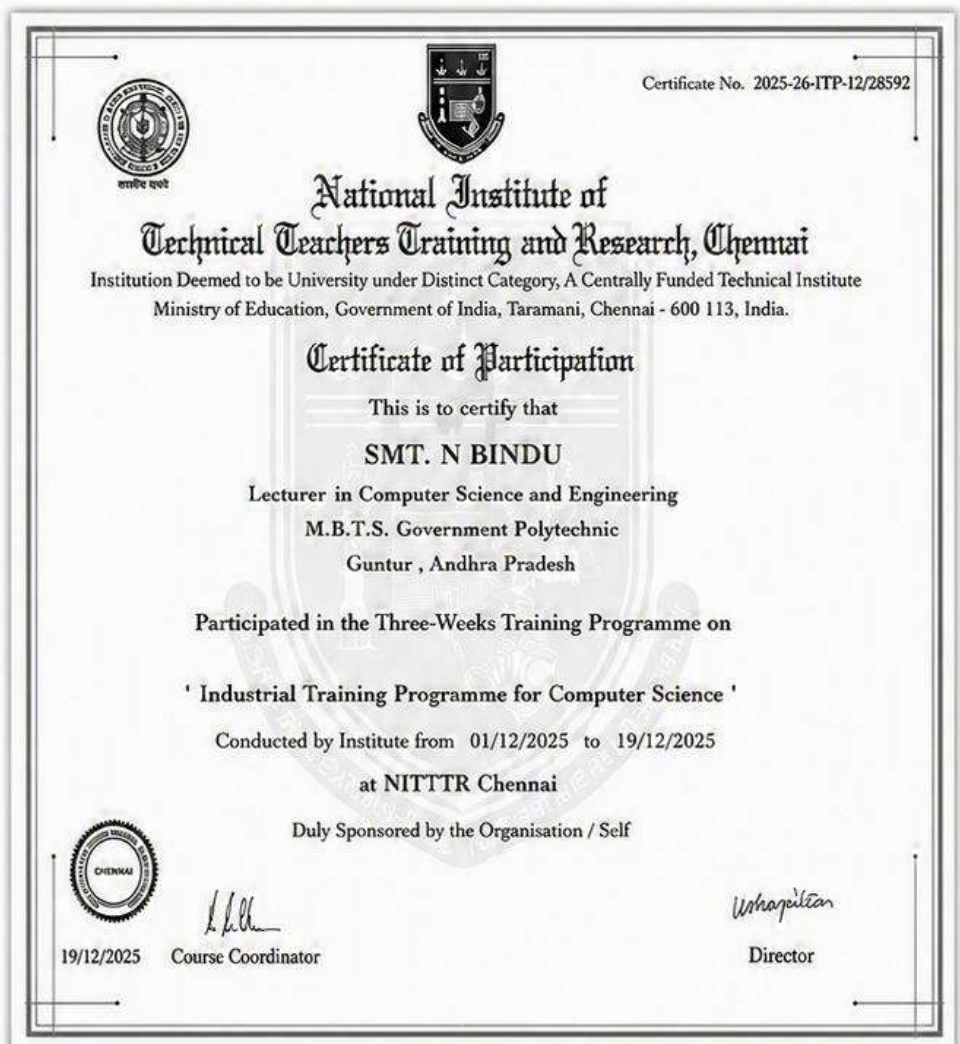
**01/12/2025 to
19/12/2025**

Her active participation and sincere involvement throughout the training period reflect her commitment to professional development, academic excellence and continuous learning.

We appreciate her enthusiasm, dedication and the keen interest shown in learning from industry experts.

“ Your dedication to learning and professional growth
is truly inspiring and a source of pride for the institution. ”

Heartiest Congratulations!



A proud showcase of innovative research,
dedication, and academic excellence.

01

Feb 2025

Journal of Harbin Engineering University
ISSN: 1006-7043

Vol 46 No. 2
February 2025

Yendrapati Ravindra Babu, Dr. O. Nagaraju,

PhD scholar of ANU, yrbabu73@gmail.com

BOS chairman-UG Computer Science, ANU, Associate Professor, APRDC.

Nagarjunasagar-522439, profonr@gmail.com

This paper presents Hierarchical Compress, a novel hierarchical deep autoencoder architecture leveraging multi-attention mechanisms, and explicit autoregressive compression and mutual compression components to utilize attention mechanisms and nonlocalization to avoid complex computation. Our model achieves superior performance on sentence completion and image reconstruction tasks.

02

Aug 2024



The Bioscan

19(2): 131-138, 2024

www.thehiscox.com

Yendrapati Ravindra Babu, PhD scholar of ANU, yrbabu71@gmail.com

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Nagarjunasagar, profoer@gmail.com

DOI: <https://doi.org/10.63001/tbs.2024.v19.i02.pp131-138>

03

Jan 2025

Indonesian Journal of Electrical Engineering and Computer Science
Vol. 37, No. 1, January 2025, pp. 269-278

ISSN: 2502-4752, DOI: 10.11591/ijeecs.v37.i1.pp269-278

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Kampa Ratna Babu¹, Kampa Kanthi Kumar², Akula Suneetha²

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²Department of Electronics and Communication Engineering, Tirumala Engineering College, Narasaraopet, India

04

Feb 2025

Journal of Information Systems Engineering and Management

2025, 10(42x)

e-ISSN: 2458-4376

<https://www.jocem-journal.com>

Research Article

Yeendrapati Ravindra Babu*, Dr. O. Nagaraju*

*PhD scholar of ANU, yrbabu73@gmail.com

*BOS chairman-UGC Computer Science, ANU, Associate Professor, APJDC, Nagarjuna Nagar-522439, profboos@gmail.com

Citation: Yendrapati Ravindra Babu, et al. (2023), Enhancing Distributed Workflow Optimization With Graph Neural Networks And Deep Learning Techniques, *Journal of Information Systems Engineering and Management*, 10(42s).



Exploring new ideas and driving solutions.



Committed to quality,
accuracy, and impact.



Contributing to the scientific community and beyond.

These publications reflect a commitment to **advancing knowledge**, driving **innovation**, and contributing to the **scientific community**.

★ *Proud Achievement* ★



Hearty Congratulations to

Mr. YADALA KIRITI BABU

Lecturer in Computer Science & Engineering

★ *Successfully Completed* ★



**Problem Solving through
Programming in C**

NPTEL Online Certification

He has successfully completed the NPTEL course **"Problem Solving through Programming in C"** conducted by the **Indian Institute of Technology Kharagpur**, funded by the Ministry of Education, Government of India, and has been awarded an **Elite certificate**.

His dedication to continuous learning and professional growth is truly inspiring.



★ *Key Highlights* ★



Consolidated Score
65%



Online Assignments
22.81/25



Proctored Exam
42/75



**ELITE
Certificate**

Wishing him many more milestones and continued success in his academic journey!

★ *Well Done Sir!* ★

BEST EMPLOYEE AWARD

Proudly Presented To

HOD SIR Y. RAVINDRA BABU



In recognition of your outstanding dedication,
exemplary performance, and valuable contributions
towards the growth and excellence of our organization.



AWARDED ON
01 / 01 / 2025



PRESENTED BY
DISTRICT COLLECTOR



Your commitment, hard work, and leadership
continue to inspire us all.

Congratulations!

WITH BEST WISHES





+ రవీంద్రబాబుకు పీహెచ్డీ ప్రదానం

మిర్యాలగూడ, నవంబరు 18 (ఆంధ్రజ్యోతి): ఆలెయ్య నాగార్జున విశ్వవిద్యాలయం విజ్ఞాపిత కంప్యూటర్ సైన్స్ ఇంజనీరింగ్ విభాగంలో పరిశోధనలపై చేసిన రవీంద్రబాబుకు పీహెచ్డీ పట్టాను ప్రదానం చేసినట్లు రీసెర్చ్ అండ్ డెవలప్మెంట్ విభాగ కమిటీ సమావేశంలో తెల్లదించారు.

డాక్టర్ ఓ. నగేష్ సమాపథరచార్యులు అధ్యక్షతన జరిగిన సమావేశంలో డాక్టర్ ఓ. నాగరాజు పరిశోధనలో రవీంద్రబాబు డాక్టర్ డిగ్రీ పొందిన అంశాన్ని ఆమోదించారు.

అనంతరం ఇంటర్నల్ డిప్ రివ్యూ గెడ్ కమిటీ సభ్యులు ఆ పరిశోధన యూఝూర్పై పరిశీలన చేసి రిపోర్ట్ (ప్రేమ సవీప) ను ఆమోదించిరివి వీసీ ఆఫీస్ వెల్ఫ్యాంది.

సమావేశంలో పీహెచ్డీని సంసంధిని సమావేవీ నివేదికను కూడా ఆమోదింస రవీంద్రబాబుకు అరుదైన డాక్టరేట్ను విశ్వవిద్యాలయం.

హార్దిక అభినందనలు

HOD SIR RAVINDRA BABU

మీ సాధన మా గర్వం.

భవిష్యత్తులో మరిన్ని విజయాలు సాధించాలని మనస్సున్నాయి.

INDUSTRY- INSTITUTE INTERACTION



BRIDGING INDUSTRY INSIGHTS WITH ACADEMIC EXCELLENCE



INTERACTION SESSION



GROUP PHOTO



PERSONALITY DEVELOPMENT PROGRAMME



Beyond Syllabus Programme • 2024-25

Empowering students to build confidence, communication skills and a positive attitude for a successful future.



MBTS GOVERNMENT POLYTECHNIC

NALLAPADU, GUNTUR - 522005

DEPARTMENT OF COMPUTER ENGINEERING

BEYOND SYLLABUS PROGRAMME

PERSONALITY DEVELOPMENT

Programme

Develop Yourself, Inspire Others
Lead Today, Succeed Tomorrow

PROGRAMME HIGHLIGHTS

- Build Self-Confidence & Self-Esteem
- Improve Communication & Interpersonal Skills
- Goal Setting & Positive Attitude
- Leadership & Team Work
- Social Responsibility & Human Values



RESOURCE PERSON

Mrs. K. Anuradha

Principal, Veda Primary School,
Chilakaluripeta
Social Worker &
Motivational Speaker



DATE
12-09-2025
(Friday)



TIME
10:00 AM
to
12:30 PM



VENUE
Computer
Laboratory

TARGET AUDIENCE

IV Semester
Computer Engineering Students

“Invest in your personality,
it is the best asset for your future.”

1

PROGRAMME OVERVIEW



Resource Person : Mrs. K. Anuradha
(Motivational Speaker & Social Worker)



Organization : Veda Primary School,
Chilakaluripeta



Date : 12-09-2025 (Friday)



Time : 10:00 AM to 12:30 PM



Venue : Computer Laboratory



Participants : IV Semester
Computer Engineering Students

OBJECTIVES

- ✓ To build self-confidence and self-esteem
- ✓ To improve communication and interpersonal skills
- ✓ To develop goal-setting ability and positive attitude
- ✓ To promote leadership, teamwork and social responsibility
- ✓ To motivate students to achieve a successful future

2

PROGRAMME GLIMPSES



1. Resource person Mrs. K. Anuradha addressing the students on self-confidence and positive attitude.



2. Interactive session conducted by the resource person on communication skills and leadership qualities.



3. Resource person explaining the significance of goal setting and self-motivation for career success.



4. Students of Computer Engineering Department attending the programme actively.



5. Resource person emphasizing the importance of self-confidence and positive attitude.



6. An engaging session on personality enhancement and professional behaviour for diploma students.



7. Resource person motivating the students to build confidence and achieve a successful future.



8. A view of the participants attending the programme organized by the Department of Computer Engineering.

KEY OUTCOMES



Self-Confidence
Students developed self-confidence and self-esteem.



Better Communication
Improved communication and interpersonal skills.



Positive Attitude
Students learned goal setting and positive thinking.



Leadership & Teamwork
Encouraged leadership qualities and team spirit.



Future Success
Motivated towards personal growth and career success.

INDUSTRIAL VISITS



DATE :

08/01/25



VENUE :

**CENTRAL INSTITUTE
OF TOOL DESIGN**

The Department of Computer Engineering organized an Industrial Visit to the Central Institute of Tool Design, Hyderabad. The visit provided students with valuable exposure to advanced tooling technologies, precision manufacturing processes, and the role of innovation in industrial development.



Such visits inspire students to bridge the gap between academics and industry, encouraging practical learning and career readiness.



STUDENT PROJECT ABSTRACT

The following is the project abstract of a final year student of the Department of Computer Engineering, demonstrating the application of knowledge, problem-solving skills, and innovative thinking to real-world problems.



SMART IRRIGATION SYSTEM



TEAM MEMBERS

- Sk. Naga Jasmine (21D14-CM-046)
- S. Kavya (21D14-CM-030)
- G. Teja Sri (21D14-CM-059)
- K. Krishnaveni (21D14-CM-024)
- L. Lekya Naidu (21D14-CM-035)



GUIDE

Sri. BVS Nagaraju
Lecturer in CME



DEPARTMENT

Computer Engineering



BATCH

2023 - 2025



PROJECT DETAILS

Domain : Smart Agriculture, IoT
Type : Hardware + Software
Duration : Nov 2024 – Apr 2025
Platform : IoT based (NodeMCU)
Tools : Arduino IDE, Blynk App,
Soil Moisture Sensor, DHT11,
Relay Module, NodeMCU ESP8266
Language : C/C++ (Arduino IDE)
IDE : Arduino IDE



ABSTRACT

Water is one of the most vital resources for life, yet its improper use in agriculture leads to water scarcity and wastage. Traditional irrigation methods often result in over-watering or under-watering, affecting soil health and crop yield. Smart irrigation system with GSM Notification integrates IoT and sensor technology to monitor the water level, soil moisture, temperature, and humidity in real-time and automate the irrigation process based on predefined thresholds.

The system uses a soil moisture sensor to continuously monitor the soil. If the soil moisture is below the set limit and the humidity is high, the motor remains OFF to prevent over-watering. If humidity levels are low (many conditions), the motor or humidity levels are high (many conditions), the soil is already moist or humidity levels are high (many conditions), the system does not activate the motor.

A key feature of this project is the integration of a GSM module, which sends real-time alerts and notifications to farmers about soil moisture status, pump operation, and system conditions. These alerts help farmers take prompt action, even when they are far from the farm. The system promotes efficient use of water, reduces manual effort, increases crop productivity, and supports sustainable farming practices.



KEY TECHNOLOGIES



NodeMCU
ESP8266



Soil Moisture
Sensor



Blynk
App



Relay
Module



DHT11
Sensor



KEY FEATURES

- Real-time soil moisture, temperature, and humidity monitoring.
- Automatic water pump control based on predefined conditions.
- GSM-based real-time alerts and notifications to the farmer.
- Efficient water usage and reduced manual intervention.
- IoT integration for remote monitoring and smart decision-making.



CONCLUSION

The proposed Smart Irrigation System helps in optimizing water usage and improving crop productivity through IoT and automation. It ensures timely irrigation, reduces water wastage, and supports sustainable agriculture while keeping farmers informed in real-time.



KEYWORDS

- Smart Irrigation
- IoT
- Soil Moisture
- Automation
- GSM Notification
- Precision Agriculture
- Sustainability



STUDENT PROJECT ABSTRACT

The following is the project abstract of a final year student of the Department of Computer Engineering, demonstrating the application of knowledge, problem-solving skills, and innovative thinking to real-world problems.



ANSWER EVALUATOR SYSTEM



TEAM MEMBERS

- K. Durga Prasad (23014-CM-022)
- G. Kavya (23014-CM-012)
- K. Durga Prasad (23014-CM-014)
- T. Dhrupe (23014-CM-055)



GUIDE

Smt. N BINDU
Lecturer / CME



DEPARTMENT

Computer Engineering



BATCH

2023 - 2025



KEY TECHNOLOGIES



Flask
(Python)



HTML5



CSS3



JavaScript



Google
Gemini AI



PDFPlumber



PyTesseract



KEY FEATURES

- AI-Powered Evaluation using Google Gemini AI
- Multi-format Support (PDF, Images, Text)
- OCR Integration for Handwritten & Printed Text
- Secure User Authentication & Role Management
- Evaluation History & Performance Tracking
- Export Reports in PDF & Excel Formats
- Intelligent Answer Matching & Scoring
- Detailed Feedback Generation



CONCLUSION

The Answer Evaluator System automates the evaluation process using AI and OCR technology, ensuring accuracy, consistency, and efficiency. It significantly reduces manual workload and supports data-driven decision-making in educational institutions.



KEYWORDS

Answer Evaluation • Artificial Intelligence • OCR • Flask • Google Gemini AI
Automation • Web Application • PDF Processing • Educational Technology



PROJECT DETAILS

Domain : Answer Sheet Evaluation System
Type : Web-based Application
Duration : Year 2024 – 2025
Platform : Flask (Python)
Tools : HTML, CSS, JavaScript, Google Gemini AI, PDFPlumber, PyTesseract, PyPDF2
Language : Python, JavaScript, HTML, CSS
IDE : VS Code



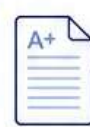
ABSTRACT

This project presents an innovative Answer Sheet Evaluation System that leverages artificial intelligence to automate the assessment of student answer sheets. The system addresses the growing need for efficient, consistent, and scalable evaluation methods in educational institutions.

The Answer Sheet Evaluation System is a web-based application built using Flask (Python) for the backend and HTML, CSS, JavaScript for the frontend. It incorporates Google Gemini AI for intelligent answer evaluation, comparing student responses against model answers to provide detailed scoring and feedback.

The system employs advanced text extraction techniques using pdfplumber and pytesseract to process answer sheets in various formats. It supports multiple file types, including PDF and images, and integrates OCR technology to accurately extract handwritten and printed text.

The platform features a secure authentication system, user management, evaluation history tracking, and export functionality for generating reports in PDF and Excel formats. This system aims to reduce manual effort, minimize human bias, and accelerate the evaluation process, benefiting both educators and students.



STUDENT PROJECT ABSTRACT

The following is the project abstract of a final year student of the Department of Computer Engineering, demonstrating the application of knowledge, problem-solving skills, and innovative thinking to real-world problems.



SMART ATTENDANCE SYSTEM



TEAM MEMBERS

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GUIDE

Smt. M Aruna Kumari
Lecturer / CME



DEPARTMENT

Computer Engineering



BATCH

2023 - 2025



PROJECT DETAILS

Domain : Smart Attendance System
Type : Web-based Application
Duration : Year 2024 – 2025
Platform : Flask (Python)
Tools : HTML, CSS, JavaScript, Face Recognition, Geolocation, MySQL, SMS Gateway
Language : Python, JavaScript, HTML, CSS
IDE : VS Code



ABSTRACT

The Smart Attendance System is an innovative web-based application that revolutionizes traditional attendance tracking methods by integrating face recognition technology, geolocation verification, and automated communication systems. This project addresses the limitations of conventional attendance systems by providing a secure, efficient, and automated solution for educational institutions.

The system employs advanced face recognition algorithms to identify students, ensuring accurate and fraud-proof attendance recording. It incorporates geolocation features to verify that students are within campus premises during attendance marking, preventing proxy attendance. The platform also includes an admin module for monitoring attendance patterns, generating reports, and sending automated SMS notifications to parents of absent students.

Built using Python Flask framework, MySQL database, and modern web technologies, the system provides a robust, scalable, and user-friendly solution for educational institutions seeking to modernize their attendance management processes. The integration of multiple verification layers ensures high security and reliability while maintaining ease of use for both students and administrators.



KEY TECHNOLOGIES



Python
(Flask)



HTML5



CSS3



JavaScript



Face
Recognition



Geolocation



MySQL



SMS
Gateway



KEY FEATURES

- Face Recognition Authentication
- Location Verification (GPS-based)
- Automated SMS Alerts to Parents
- Real-time Attendance Monitoring
- Admin Dashboard & User Management
- Attendance History & Reporting
- Geolocation Boundary Validation
- Secure and Fraud-proof System
- Easy-to-use Web Interface
- Automated Notifications



CONCLUSION

The Smart Attendance System automates the attendance process using face recognition and geolocation technology, ensuring accuracy, security, and efficiency. It minimizes manual work, prevents proxy attendance, and enhances communication between institutions and parents through automated notifications.



KEYWORDS

Face Recognition • Geolocation • Automation • Flask • Web Application
Attendance Tracking • SMS Notification • Python • Security • Educational Technology



Congratulations!

★ PROUD MOMENT FOR OUR COLLEGE ★

— WE ARE DELIGHTED TO ANNOUNCE THAT —



PLACED WITH PRIDE

Matcha Syamala

Pinno: 23014-CM-034

COMPANY NAME: THOUGHTS WORKS

Package: 8LPA



We are proud to share that **Matcha Syamala**,
a dedicated and hardworking student,
has been successfully placed in **THOUGHTS WORKS**
with an impressive package of **8LPA**.

Her achievement is a testament to her skills,
perseverance, and the quality education
provided by our college.

We wish her all the best for a bright and successful career ahead!

❖ *Heartiest Congratulations!* ❖

FROM MANAGEMENT, FACULTY AND STUDENTS



STUDENT INDUCTION PROGRAM 2025-26



A THREE-DAY ORIENTATION PROGRAM FOR FIRST YEAR STUDENTS



The Department of Computer Engineering, MBTS Government Polytechnic, Guntur organized a three-day induction program to welcome new students and help them adapt to the academic environment, campus life, and future opportunities. The program emphasized personality development, communication skills, career guidance, and awareness of emerging technologies.



PROGRAM HIGHLIGHTS

-  Institution & Department Orientation
-  Campus Tour & Familiarization
-  Sessions on Communication & Personality Development
-  Career Guidance & Opportunities
-  Awareness on Emerging Technologies
-  Interactive Activities & Group Discussions
-  Industry Expert Interaction

KEY OUTCOMES

-  Enhanced communication, interpersonal and confidence.
-  Familiarity with academic system, campus facilities and student services.
-  Awareness of career paths, opportunities and industry expectations.
-  Motivated and prepared for a successful academic journey.



Welcoming Future Engineers to a Journey of Learning and Innovation



STUDENT INDUCTION PROGRAM 2025-26

A THREE-DAY ORIENTATION PROGRAM FOR FIRST YEAR STUDENTS



MBTS GOVERNMENT POLYTECHNIC, GUNTUR
DEPARTMENT OF COMPUTER ENGINEERING



The Department of Computer Engineering organized a Three-Day Student Induction Program for first year students to help them adapt to the academic environment, campus life, and future opportunities. The program focused on personality development, communication skills, career guidance, and awareness of emerging technologies.

PROGRAM HIGHLIGHTS



Inaugural Session
by Principal



Interactive Sessions on
Skills & Career Guidance



Campus Tour
& Familiarization



Group Discussion
& Student Interaction



PROGRAM OUTCOMES

- ✓ Familiarized students with the institution, curriculum and campus facilities.
- ✓ Enhanced communication, interpersonal and professional skills.
- ✓ Created awareness about career opportunities, scholarships, and student support services.
- ✓ Motivated students towards academic excellence and overall development.



FILE EVIDENCE FOR NBA

- | | |
|----------------------------|-----------------------------------|
| ✓ Circular | ✓ Feedback Forms |
| ✓ Brochure | ✓ Feedback Analysis Report |
| ✓ Schedule | ✓ News Letter Report |
| ✓ Attendance Sheets | ✓ Proceedings & Completion Report |
| ✓ Photos (Day-wise) | |
| ✓ Resource Person Profiles | |

“

Orientation is the first step towards transformation.

We welcome our new students to a journey of learning, growth and success.

”



LEARN • GROW • EXPLORE • SUCCEED



IPSGM SPORTS MEET SPORTS ACHIEVEMENTS



DISTRICT LEVEL RUNNING CHAMPION

Our student has demonstrated exceptional speed, endurance, and determination by winning the District Level Running Championship.

This outstanding achievement is a result of consistent practice, discipline, and a never-give-up attitude.

A Proud Moment for Our Department!



2ND PLACE IN BATMENTON IN DISTRICT LEVEL

Our team secured 2nd Place in the District Level Badminton Tournament showcasing teamwork, agility, and remarkable sportsmanship.

This achievement reflects their hard work, strategic play, and dedication to excellence.

Congratulations to the Team!



“

Champions keep playing until they get it right.
DEDICATION. PRACTICE. VICTORY.

”

NCC/COMMUNITY SERVICE ACTIVITIES

NCC cadets are committed to serving the nation and society through various community service activities. These initiatives promote responsibility, discipline, leadership and a spirit of service among cadets while contributing to a cleaner, healthier and more aware community.

1. SWACH BHARAT ACTIVITIES



Swach Bharat activities are conducted to promote cleanliness and hygiene in our surroundings.

- Cleaning of public places, schools and roads
- Collection and proper disposal of wastes
- Creating awareness about the importance of a clean and green environment

2. BLOOD DONATION CAMP



Blood donation camps are organized to support healthcare and save lives.

- Cadets voluntarily donate blood for those in need
- Encourages a sense of humanity and social responsibility
- Promotes health, unity and selfless service

3. AWARENESS PROGRAM



Awareness programs are conducted to educate and inspire the community.

- Topics include cleanliness, health, blood donation, drugs awareness, traffic rules, etc.
- Promotes responsible citizenship
- Spreads knowledge for a better and safer society

4. TREE PLANTATION DRIVES



Tree plantation drives aim to protect our environment and ensure a greener future.

- Planting of saplings in schools, campuses and public areas
- Helps in reducing pollution and combating climate change
- Promotes environmental conservation and sustainability



TOGETHER WE SERVE, TOGETHER WE GROW.

Through these activities, NCC cadets learn the value of service before self and work towards building a cleaner, healthier, and better nation.



PHOTO GALLERY



1. NCC cadets receiving rifle training from Army personnel.



2. Army demonstration and briefing on weapon handling and safety.



3. Faculty explaining automation and pneumatic systems in lab.



4. Participants of the programme marching in a disciplined manner.



5. Prize distribution to winners by faculty members.



6. Felicitation of winners for their excellent performance.



7. Inauguration of the programme with lamp lighting ceremony.



8. Guests greeting and felicitating resource persons.



9. Group photo with all participants, faculty and guests.



10. NCC cadets and students with awareness posters.



11. Memento presentation to distinguished guest.



12. Students participating actively in the personality development activities.

Together, we continue to learn, grow, and inspire.



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